

PROJECT DESCRIPTION

EQUIPMENT LISTS
(CONT.)

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F H W A REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD			

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting due to the addition of a new entrance for Fort Meade Middle School at the intersection of MD 175 and Disney Road in Anne Arundel County. MD 175 is assumed to run in an east-west direction.

II. INTERSECTION OPERATION

- 1.) The intersection is to operate in a NEMA six-phase, fully-actuated mode, with the MD 175 approaches running concurrently. Exclusive/ Permissive left turn phases shall be provided for both approaches of MD 175. A pedestrian phase with pushbutton actuation shall be provided across the west leg of MD 175. The Disney Road/School Entrance approaches shall also run concurrently.
- 2.) Three (3) four-channel, rack mount loop detector amplifiers shall be installed into the existing pole-mounted cabinet at this intersection.

III. SPECIAL NOTES

All field wiring to the existing controller cabinets shall be terminated to the appropriate controller cabinet connectors by the Contractor and labeled. All other controller cabinet wiring will be performed by the S.H.A. Signal Shop. Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two (72) hours in advance of intended work.

EQUIPMENT LISTS

A. EQUIPMENT TO BE SUPPLIED BY S.H.A.

QUANTITY	SPEC. SECTION	DESCRIPTION
3 EA	814	12", one-way, three-section (R,Y,G) traffic signal head with adjustable bracket for mast arm mounting and tunnel visors.
2 EA	814	12", one-way, five-section (R,Y,A,Y,G,A,G) (left arrows) traffic signal head with adjustable bracket for mast arm mounting and tunnel visors.
1 EA	814	Combination 8"-12", one-way, five-section (8"-R,Y,G) (12"-Y,A, GA) (Left Arrows) traffic signal head with adjustable bracket for mast arm mounting and tunnel visors.
18 SF	813	Sheet aluminum signs to consist of: 1 EA R10-12 "LEFT TURN YIELD ON GREEN (BALL)" sign, (36" x 42") mast arm mounted. 1 EA R3-5L "LEFT TURN ONLY" sign, (30" x 36") mast arm mounted.
15.5 SF	813	Sheet aluminum signs to consist of: 1 EA R3-7a (R) "RIGHT LANE MUST TURN RIGHT AT MD175" sign, (30" x 42") ground mounted with hardware. 1 EA R3-7R "RIGHT LANE MUST TURN RIGHT" sign, (30" x 30") ground mounted with hardware.
3 EA	863	4-channel, rack mount loop detector amplifier. (To be installed into the existing cabinet by the S.H.A. Shop Forces.)
1 EA	863	Detector Rack (pole-mounted cabinet). (To be installed by the S.H.A. Shop Forces.)

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

QUANTITY	SPEC. SECTION	DESCRIPTION
LS	106	Mobilization.
LS	106	Maintenance of traffic.
150 SF	104	Temporary traffic sign.
15 UD	105	Flashing arrow panels.
2 CY	204	Test pit excavation.
330 LF	SP-555	Furnish and install preformed pavement marking tape, white (12" width for crosswalks).
80 LF	SP-555	Furnish and install preformed pavement marking tape, white (24" width for stoplines).
2 EA	SP-555	Furnish and install "ONLY" (word) preformed pavement marking.
2 EA	SP-555	Furnish and install curved arrow (symbol) preformed pavement marking (left).
2 EA	SP-555	Furnish and install curved arrow (symbol) preformed pavement marking (right).
50 SF	610	Furnish and install 4" concrete sidewalk, mix No. 2.
40 SF	805	Remove sidewalk.
6.5 CY	801	Furnish and install concrete foundation.
2 EA	801	Furnish and install grout.
3 EA	804	Furnish and install ground rod, 3/4" diameter x 10' length.
2 EA	818	Furnish and install 27" steel pole with a 40' mast arm. (Note: 4 anchor bolts will be 1 3/4" x 90".)
3 EA	814	Install 12", one-way, three-section traffic signal head, mast arm mount.
2 EA	814	Install 12", one-way, five-section traffic signal head, mast arm mount.
1 EA	814	Install combination 12", 8" one way, five-section traffic signal head, mast arm mounted.
18 SF	813	Install overhead mounted sign.
970 LF	815	Furnish and install sawcut.
40 LF	805	Furnish and install 1" galvanized steel electrical conduit (detector wire sleeve).
25 LF	805	Furnish and install 1" liquid tight flexible non-metallic electrical conduit (detector wire sleeve).
85 LF	805	Furnish and install 3" polyvinyl chloride electrical conduit (Schedule 80) (slotted).
800 LF	805	Furnish and install 2" polyvinyl chloride electrical conduit (Schedule 40) (trenched).
35 LF	805	Furnish and install 3" polyvinyl chloride electrical conduit (Schedule 40) (trenched).

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR
(CONT.)

QUANTITY	SPEC. SECTION	DESCRIPTION
60 LF	805	Furnish and install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched prior to paving of new roadway).
9 EA	811	Furnish and install handhole (frame and cover).
475 LF	804	Furnish and install stranded bare copper ground wire (No. 6 A.W.G.).
3545 LF	810	Furnish and install loop wire (No. 14 A.W.G.) encased in 1/4" flexible tubing.
2975 LF	810	Furnish and install 2-conductor electrical cable (No. 14 A.W.G.) (aluminum shielded).
195 LF	810	Furnish and install 2-conductor electrical cable (No. 14 A.W.G.).
195 LF	810	Furnish and install 3-conductor electrical cable (No. 14 A.W.G.).
140 LF	810	Furnish and install 5-conductor electrical cable (No. 14 A.W.G.).
975 LF	810	Furnish and install 7-conductor electrical cable (No. 14 A.W.G.).
500 LF	810	Furnish and install 2-conductor electrical cable (No. 12 A.W.G.) type THHN tray cable.
2 EA	806	Furnish and install 250W-HPS luminaire.
2 EA	808	Furnish and install 10' lighting arm.
130 LF		Remove existing 12" width pavement marking utilizing grinder method.
35 LF		Remove existing 24" width pavement marking utilizing grinder method.
2 EA		Remove traffic signal head.
1 EA		Remove sign.
1 EA		Remove existing handhole cover, extend existing conduit within handhole and fill with concrete.
1 EA		Raise existing handhole to grade.
1 EA		Relocate existing breakaway pedestal pole and all attached equipment to proposed foundation.
1 EA		As-built traffic control device.
1 EA		Cut 10' off existing mast arm.
15.5 SF	813	Install ground mounted sign.
32 LF	812	Furnish and install sign supports (4" x 4").

EQUIPMENT LISTS
(CONT.)

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO: STATE HIGHWAY ADMINISTRATION, OFFICE OF TRAFFIC AND SAFETY, SIGNAL OPERATIONS WAREHOUSE, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. CONTACT MR. DAVID SCHWARTZ @ (410) 787-7667, FORTY-EIGHT (48) HOURS IN ADVANCE OF RETURNING EQUIPMENT.

QUANTITY DESCRIPTION

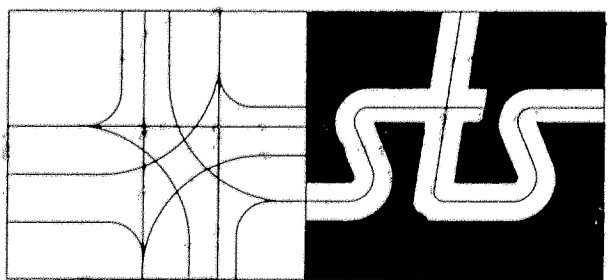
1 EA	12", one-way, three-section signal head, mast arm mounted.
1 EA	12", one-way, five-section signal head, mast arm mounted.
1 EA	R10-12 sign (36" x 42").

NOTE: All equipment and/or materials to be removed by the Contractor but not listed above are to become the property of the Contractor.

MAINTENANCE OF TRAFFIC SPECIAL PROVISIONS

The following Traffic Control Standard Numbers shall be referenced for the project.

Standard 105.00	Standard 105.01
Standard 105.02	Standard 105.03
Standard 105.201	Standard 105.202
Standard 105.203	Standard 105.204
Standard 105.205	Standard 105.206
Standard 105.207	Standard 105.208
Standard 105.209	Standard 105.210
Standard 105.211	Standard 105.212
Standard 105.213	Standard 105.214



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1302 Concourse Drive, Suite 104
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(410) 859-3553

PAGE

REVISIONS

APPROVALS

CHIEF, SIGNAL DESIGN SECTION

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, OFFICE OF TRAFFIC AND SAFETY

MDOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic and Safety
TRAFFIC ENGINEERING DESIGN DIVISION

DRAWN BY: _____
DES. BY: _____
CHK. BY: _____

MD 175 AND DISNEY RD

COUNTY ANNE ARUNDEL

DATE: 2-12-96

F.A.P. NO.

TS/STD. NO.

SHEET NO.

SCALE: N/A

S.H.A. NO. BW 860-802-512

TS-1959B

OF

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